

SUM AND DIFFERENCE

Problem Statement

Let 'S' denote sum of prime numbers in a given range and 'P' denote sum of perfect squares in a given interval $[L,R]$, inclusive and $L \leq R$

Find $S-P$.

Constraints:

$0 \leq L \leq R \leq 100000$.

Input Format

The first line contains 'L' and 'R' of interval $[L,R]$.

Output Format

You are to print 'S'-'P', i.e Sum of primes numbers - Sum of perfect squares in a given interval $[L,R]$, inclusive.

Sample Input

3 10

Sample Output

2

Explanation

The given interval is $[3,10]$, inclusive. Sum of prime numbers in that interval is $3+5+7=15$. Sum of perfect squares in that interval is $4+9=13$. Hence $15-13=2$, is the answer.